



Design Features

All of the important features are shown in full colour at:
www.vantagealuminium.com.au

Get the solid appearance of timber with the benefits of aluminium:

- Strength.
- Weather performance.
- Sound reduction.
- High performance powder coat and anodised finishes.
- Security.
- Flyscreening.

The window has been tested for compliance with the relevant Australian Standards. Achieving a high water resistance of 300Pa.

102mm Frame, mullion and transom have a soft 2mm internal radius.

Both sashes can be hinged back into the room to allow cleaning of both sides of the glass from inside, without having to remove the flyscreen.

Sashes can be secured with the Vantage custom key or non-key locking cam handle.

When windows are a powder coated finish the lower corners on the top sash are fitted with die cast horns as standard. Horns are not available in anodised finishes.

Magnum™ double-hung windows can be fitted with external flyscreens within the frame line, no turn buckles required.

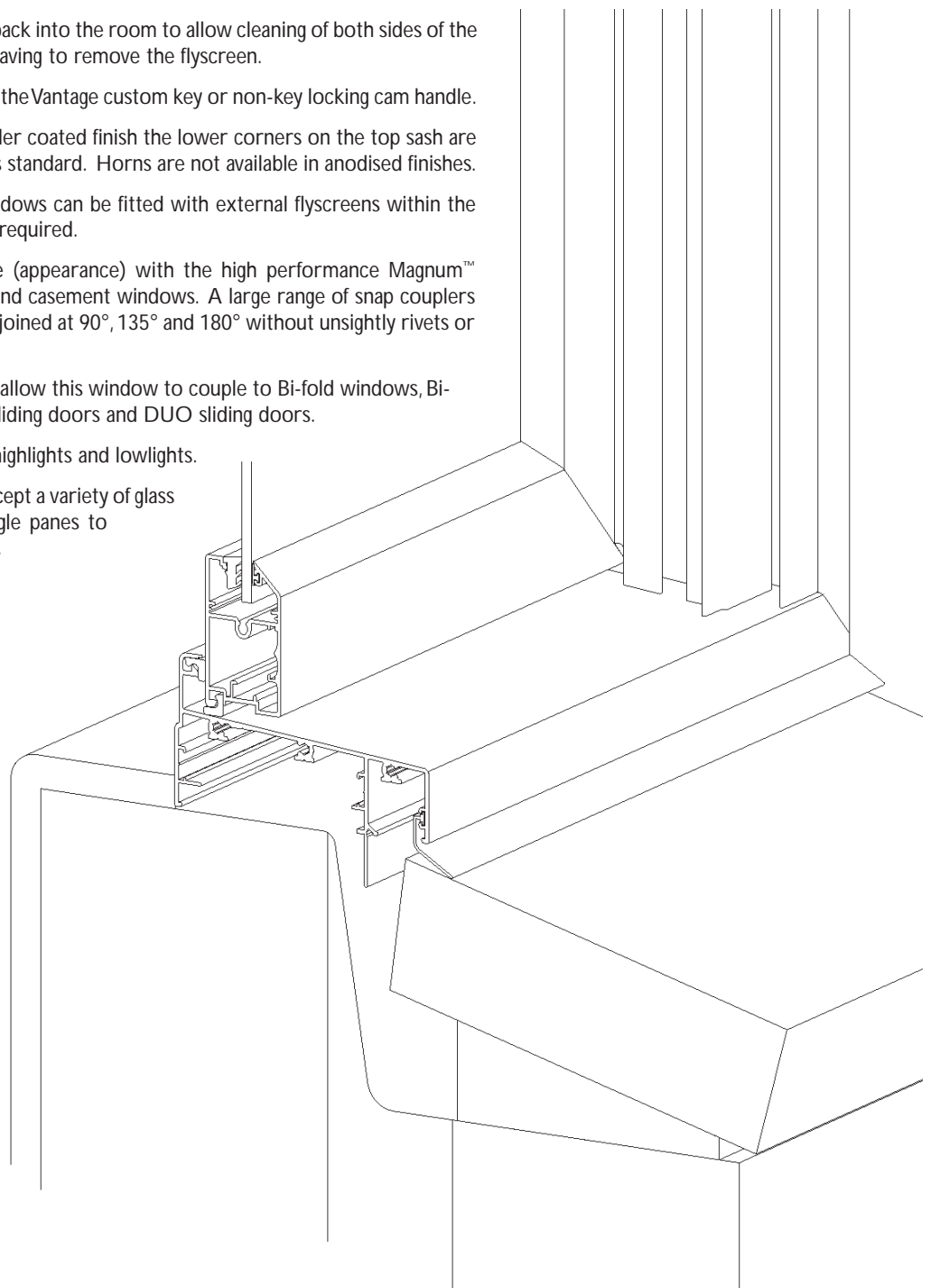
The window is compatible (appearance) with the high performance Magnum™ horizontal sliding, awning and casement windows. A large range of snap couplers allow these windows to be joined at 90°, 135° and 180° without unsightly rivets or screws.

These couplers would also allow this window to couple to Bi-fold windows, Bi-fold doors, French doors, Sliding doors and DUO sliding doors.

Matching fixed sidelights / highlights and lowlights.

Sashes and sidelights will accept a variety of glass thicknesses from 4mm single panes to 20mm insulating glass units.

The perimeter frame will accept the optional 'Paddington' federation trims, as illustrated in these notes.



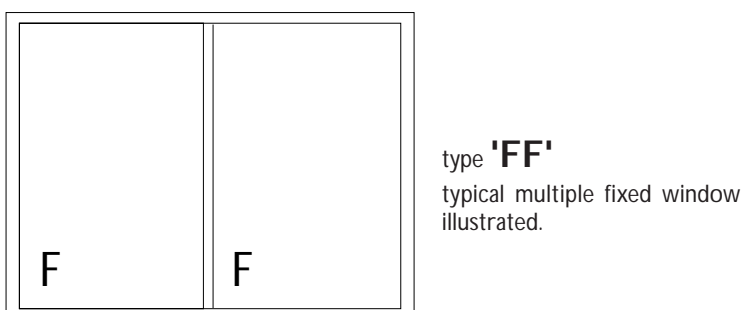
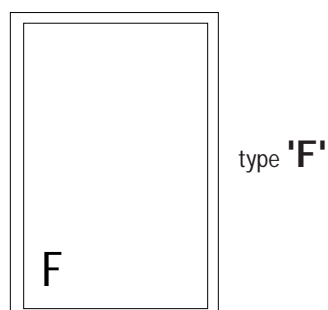
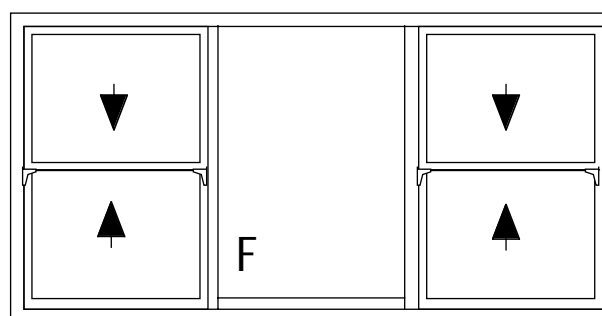
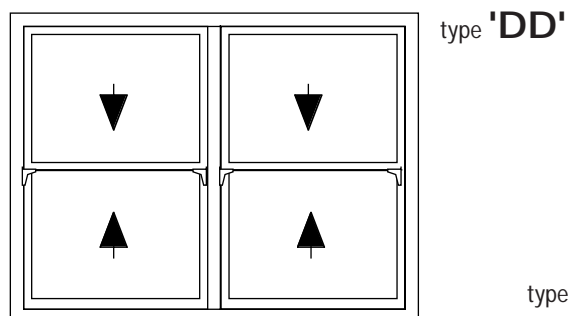
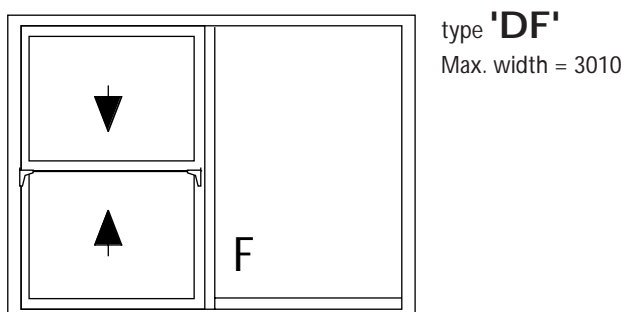
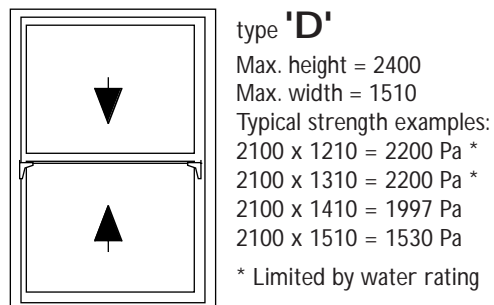
Architectural Information

Series 613 Magnum™ Double-hung Window

Window Options

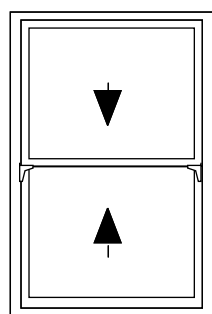


The double-hung system is inlaid into dedicated perimeter frame and mullions, refer cross sectional details.



Pure fixed windows can be fabricated out of the double-hung frame as a single or multiple units. We can also fabricate similar fixed windows from the awning frame, refer Series 616 (section 36).

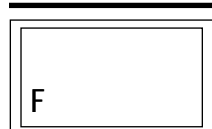
Full height fixed lights (without transoms) that can be mistaken for door openings are to be glazed with safety glass, refer AS1288 Section 5. If in doubt as to whether a window requires safety glass always err on the side of safety.



Combination windows with transom are fabricated as separate units then joined with 'I' coupler 42030.

Important Note:

In elevated situations (above ground level) the position of the transom should be considered with safety in mind. In some areas there may be regulations covering the height of the transom above floor level. refer AS1288 Section 5 for lowlight glass minimum requirements.





Architectural Information

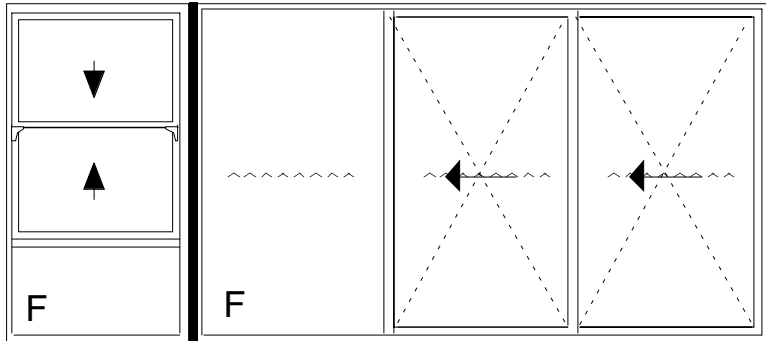
Page: 26.3

Series 613 Magnum™ Double-hung Window Window Coupling Options

Date: Oct 04

Replaces: Aug 03

Scale: Half full size

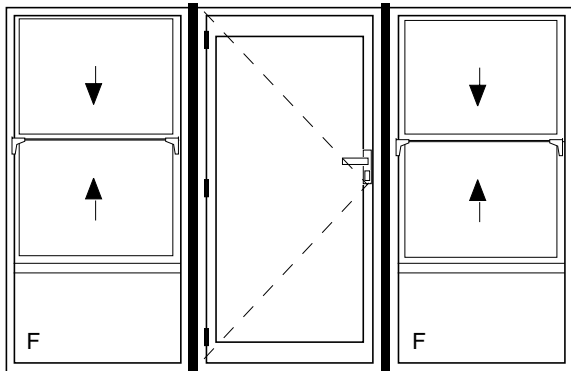


Series 613 windows can be clipped to Series 541 sliding or Series 543 DUO doors using the box coupler 42027 or 'I' coupler 42030*.

Likewise 90° corners using 42022 coupler and 135° bay corners with 42026.

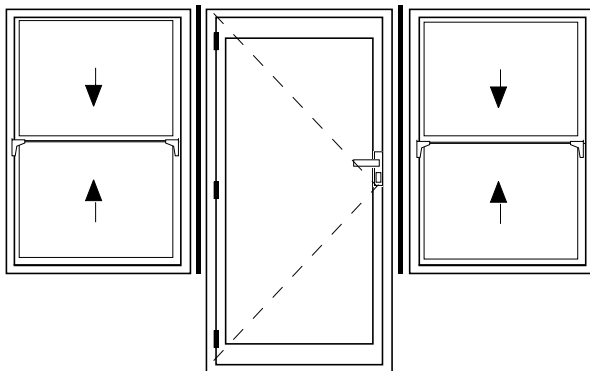
*** Note:**

As the double-hung transom window (illustrated left) has been fabricated from two separate windows with 42030 'I' coupler at the transom joint. This window requires the heavier box coupler (42027) vertically when clipped to the door.

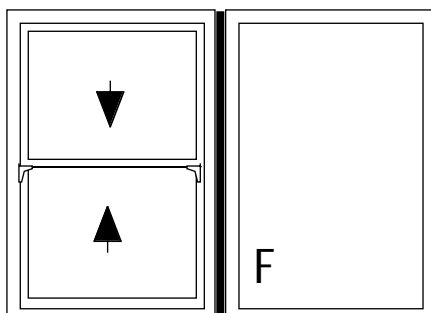


Series 613 windows will also clip to Series 548 French doors using the box coupler 42027 or 'I' coupler 42030*.

Likewise 90° corners using 42022 coupler and 135° bay corners with 42026.



The 'I' coupler 42030 can only be used vertically if the double-hung windows have no transoms as shown left.



The 'I' coupler 42030 can also be used to create a significantly stronger mullion by coupling two windows together as shown left.

Note: This assembly can't have horizontal breaks in the windows (transoms) as this would result in broken mullion members

Typical strength examples on type 'DF' as shown and type 'DD':

2100 x 2410 = 2200Pa *

2100 x 2710 = 2200Pa *

2100 x 3010 = 1550Pa ▼

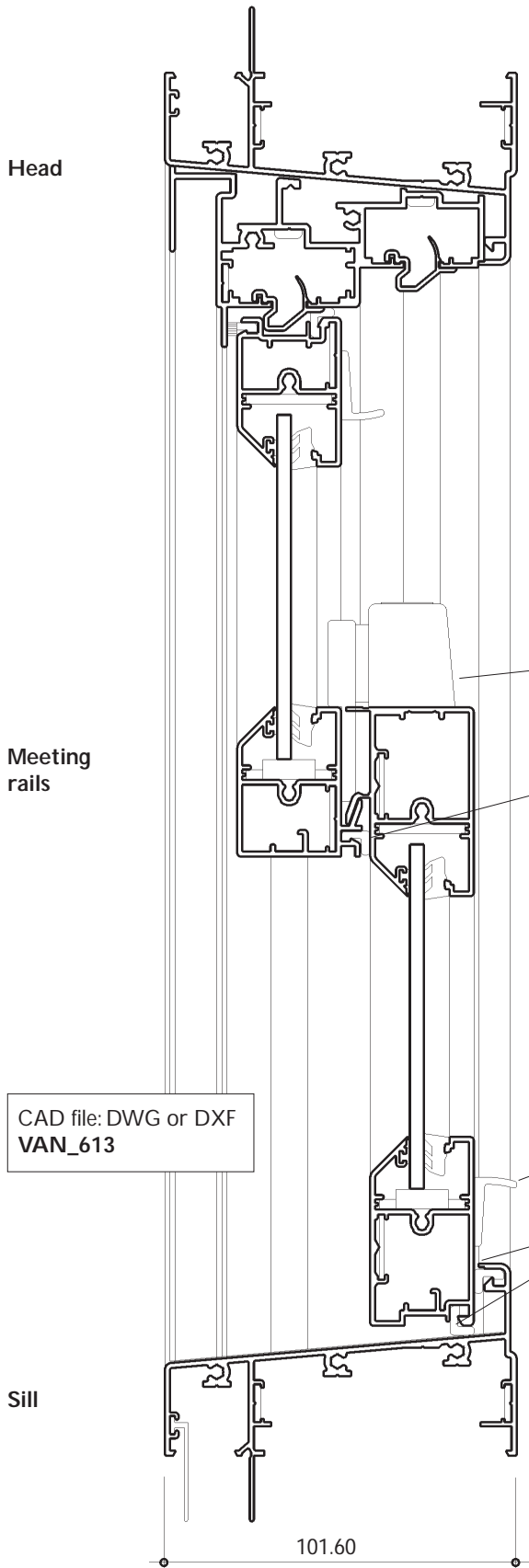
* Limited by water rating.

▼ Limited by meeting stile strength on the double-hung window.

Architectural Information

Series 613 Magnum™ Double-hung Window

Vertical Cross Section



Meeting Rail Strength

This table is a guide to the serviceability strength (1/150) of the meeting rails on Series 613 double-hung windows.

type code	Height mm	Width mm	Meeting Rails
D	2100	910	(2200 Pa)
D	2100	1210	(2200 Pa)
D	2100	1510	1530 Pa

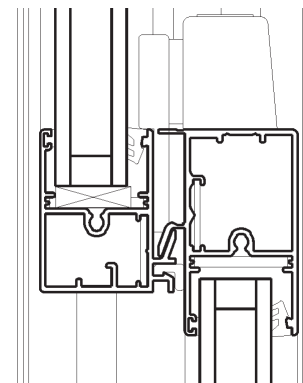
Series 613 sliding windows will resist 300Pa water which makes them suitable for the most exposed residential locations in Australia.

Sound Reduction

We have tested the Magnum™ double-hung with 6.38mm laminated glass. Window was fitted with weatherpile seals externally and 'Aquamac' internally and at meeting rails.

- 6.38mm Laminated glass 30dB(A) RW30

Go to the SoundOUT section 55 for other options.



Vantage custom cam handle.

'Aquamac' seal.

Interlocked meeting stiles.

Single glazed sashes shown left will accept glass up to 8.38mm thick.

Dedicated double glazed sashes shown above right, will accept glass up to 20mm thick.

Sash lifts.

Bottom rail double sealed with 'Aquamac'.

Stainless steel assembly screws.



Series 613 Magnum™ Double-hung Window

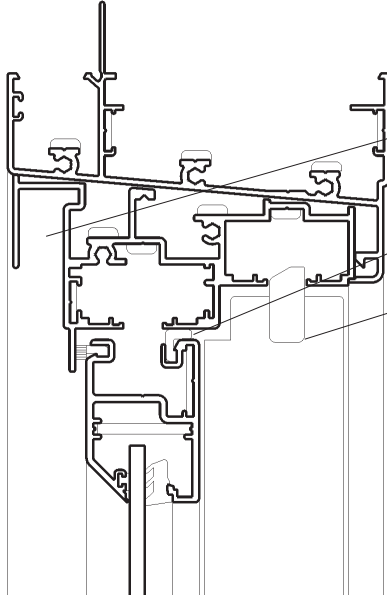
Date: Aug 03

Horizontal Cross Section

Replaces:

Scale: Half full size

Jamb



Standard splayed sashes

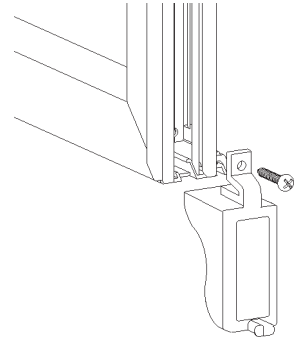
will accept glass up to 8.38mm thick.

External frame recess will accept Vantage extruded flyscreen - when required.

Side rails sealed with 'Aquamac' on the inside and weatherpile on the outside.

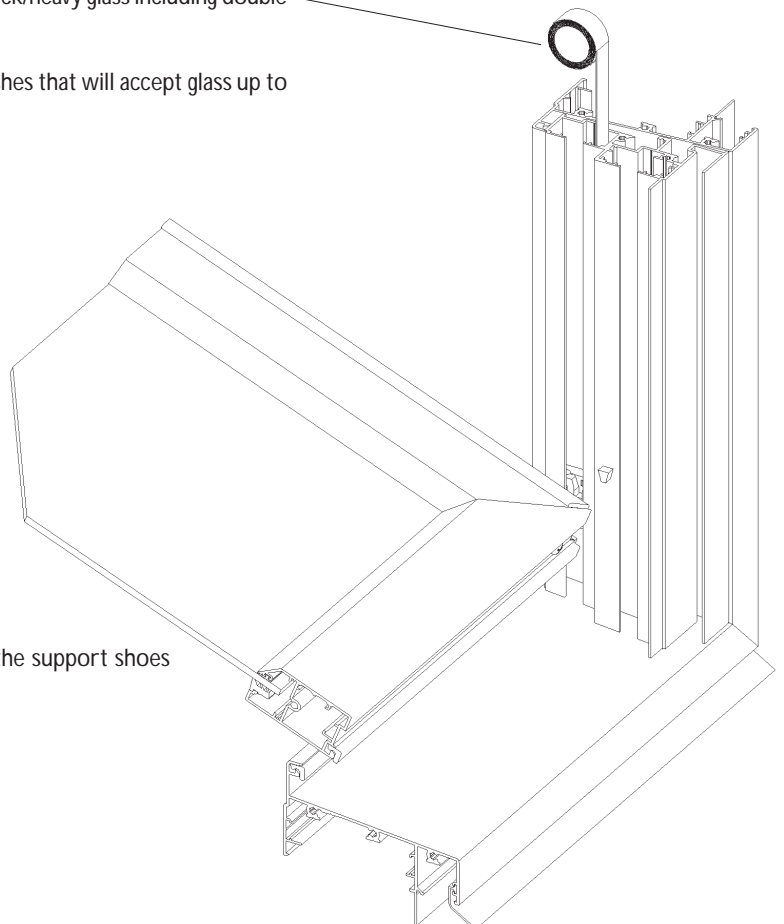
Nylon sash latches can be disengaged to allow sashes to be tilted back into the room. This allows both sides of the glass to be cleaned from inside.

Top sash fitted with die cast horns as illustrated below (not available on anodised finishes).



Heavy duty spring balances allow us to fit thick/heavy glass including double glazed units.

Double glazed windows have dedicated sashes that will accept glass up to 20mm thick.



When the sashes tilt back into the room the support shoes lock into the jamb guides.

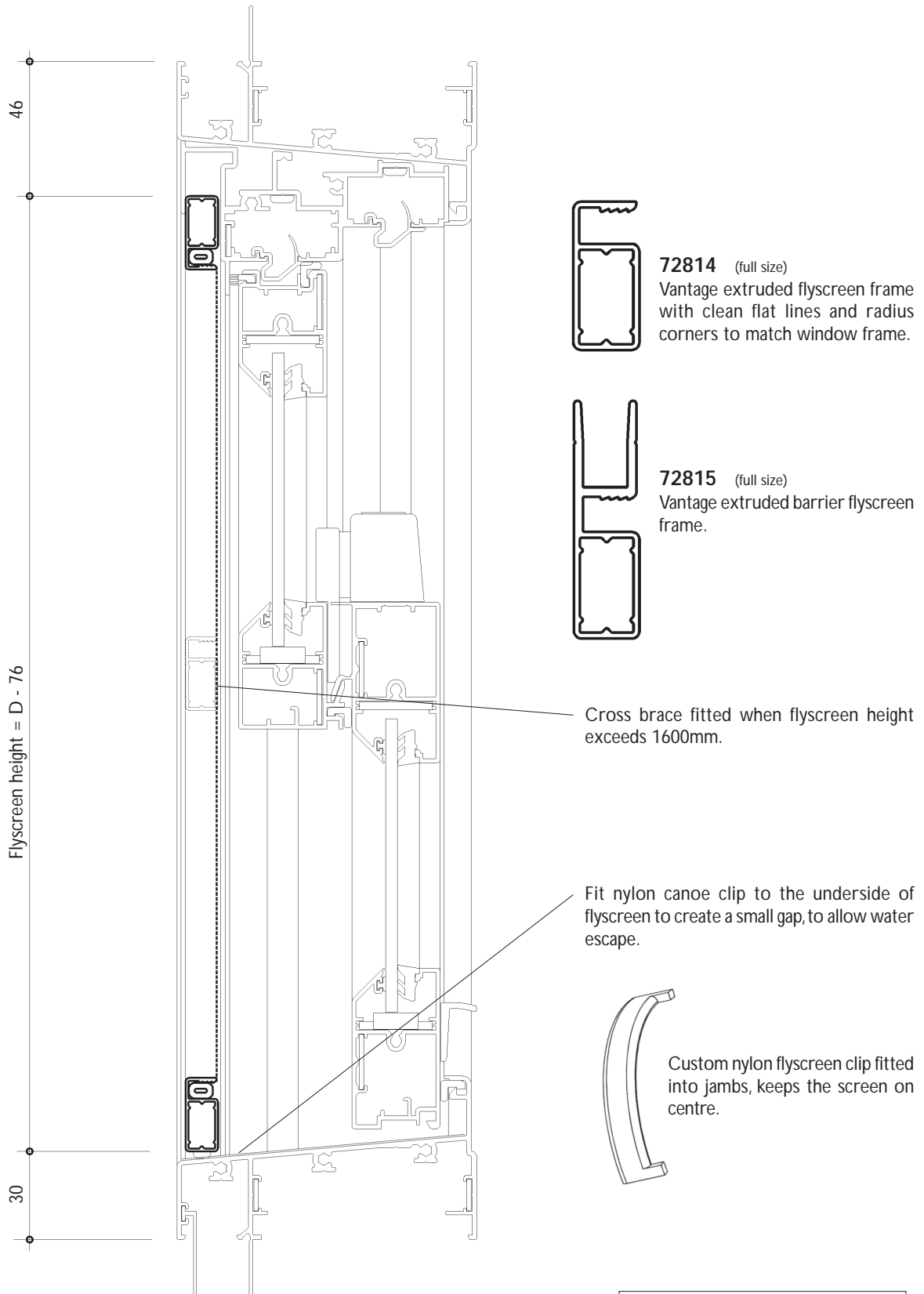
See the sashes open, close and tilt on our web site at:
www.vantagealuminium.com.au

Page: 26.6
 Date: Aug 03
 Replaces:
 Scale: Half full size

Architectural Information

Series 613 Magnum™ Double-hung Window

Optional Flyscreening



scale: half full size

See how easy it is to fit screens to
 Magnum™ double-hung at:
www.vantagealuminium.com.au



Series 613 Magnum™ Double-hung Window Optional 'Paddington' Federation Trims

'Paddington'

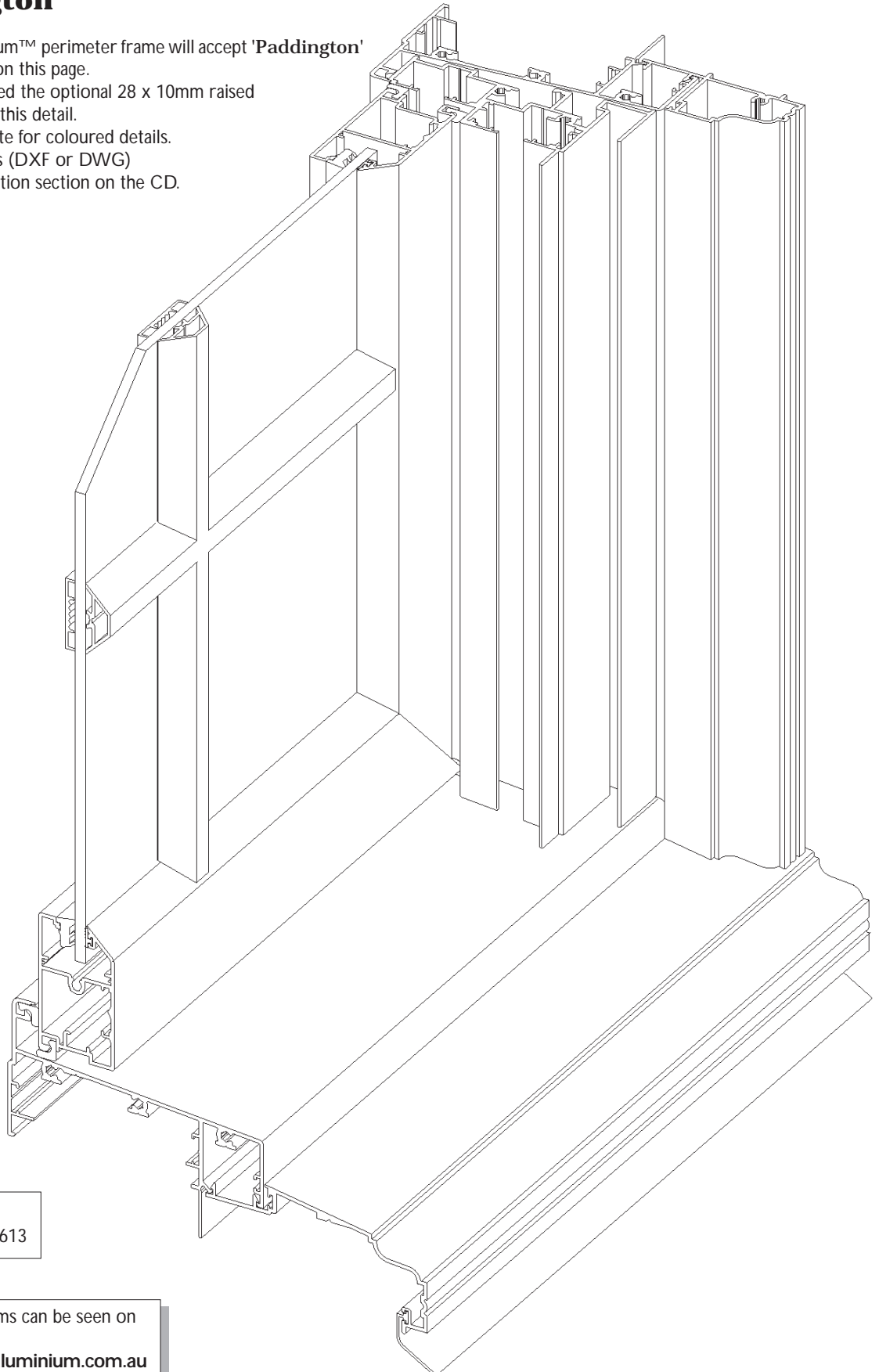
Series 613 Magnum™ perimeter frame will accept 'Paddington' trims as shown on this page.

Have also included the optional 28 x 10mm raised colonial bars on this detail.

Refer the web site for coloured details.

For cad drawings (DXF or DWG)

go to the installation section on the CD.



CAD file:
DWG or DXF 613

'Paddington' trims can be seen on
our web site at:
www.vantagealuminium.com.au

Page: 26.8
Date: May 06
Replaces: Oct 04
Scale: Noted below

Architectural Information

Series 613 Magnum™ Double-hung Window

Architectural Commercial Double-hung Window



Alternative Commercial Double-hung Window

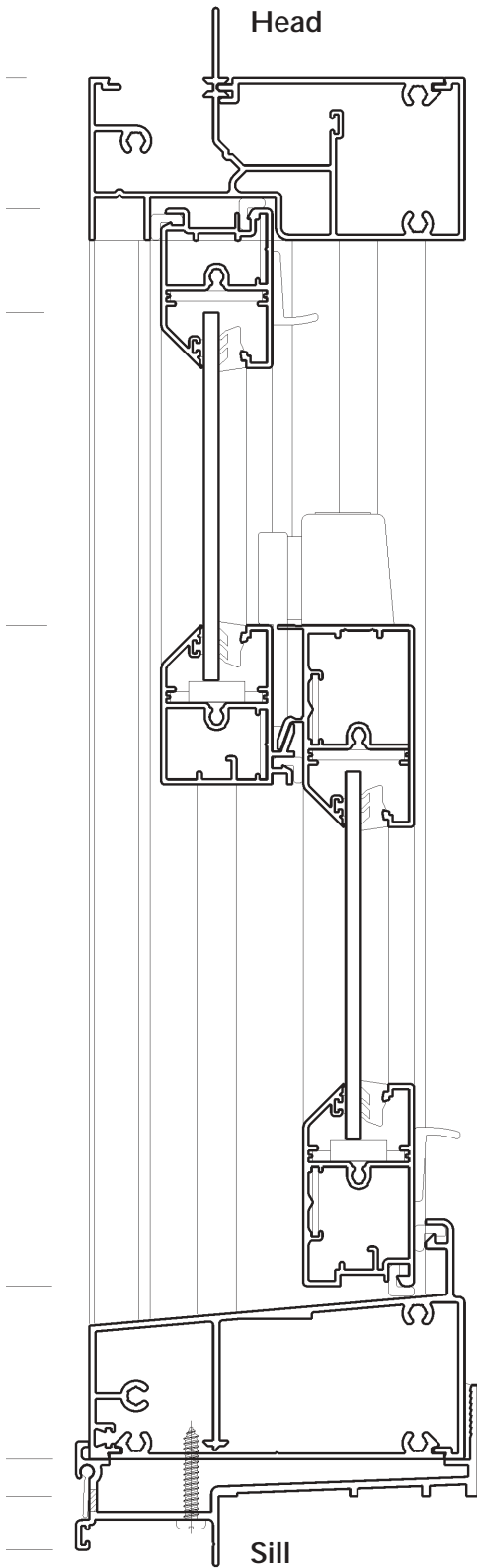
If you are looking for a bolder frame consider the AWS Commercial double-hung window Series 463.

Features overview:

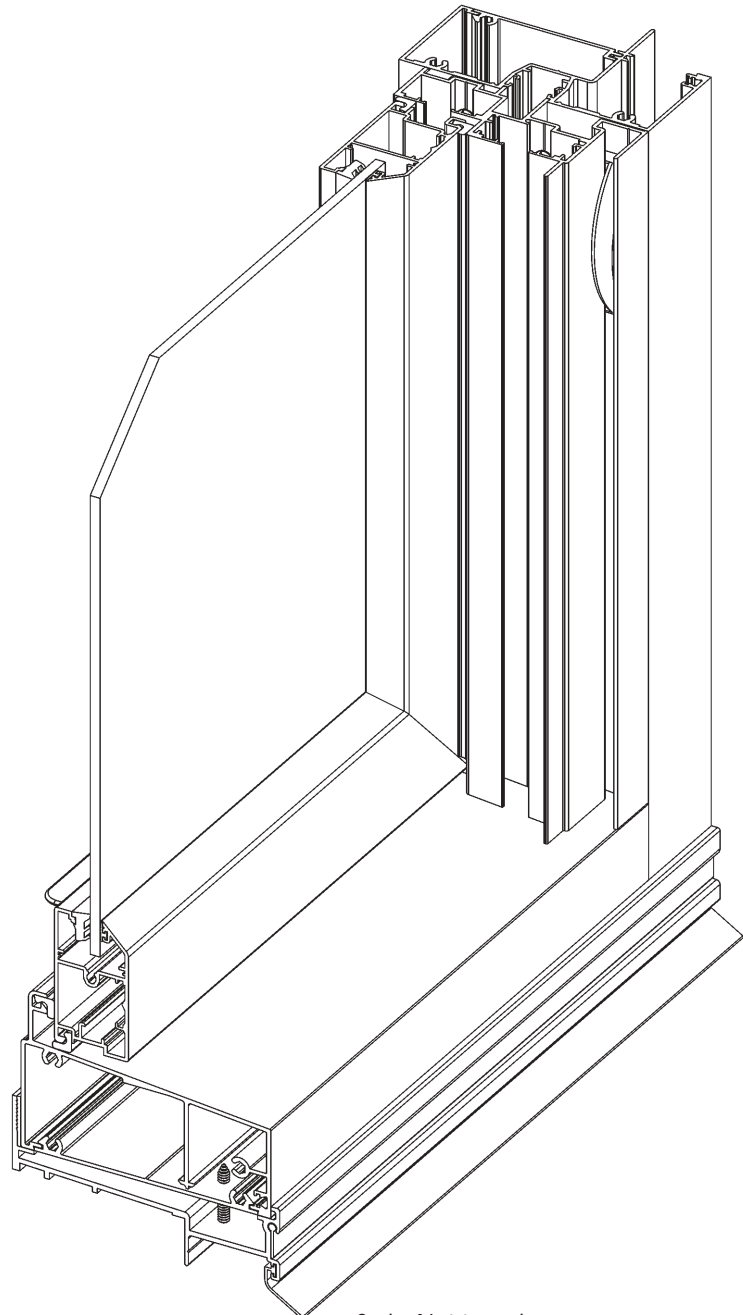
- Bold square commercial frame with built-in nailing fin.
- Nailing fin sub-sill is standard.
- Compatible with conventional CentreGLAZE™ shopfront framing.

Refer AWS Commercial Specifier Manual for more details.
Coloured animated images can be seen on AWS web site:
awscommercial.com.au

Australian Registered Design.



Scale: Half full size





Architectural Information

Series 613 Magnum™ Double-hung Window

Index

Page: **26.0**

Date: Oct 04

Replaces: Aug 03

Scale:

Page	Contents
26.1	Introduction.
26.2	Window options.
26.3	Window coupling options.
26.4	Vertical cross section.
26.5	Horizontal cross section.
26.6	Optional flyscreening.
26.7	Optional 'Paddington' federation trims.
26.8	Alternative upmarket window.

Series 613 Double-hung window internal view
(Not to scale)

